Title

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> **cluster notes —** Place notes in cluster analysis

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Syntax

Add a note to a cluster analysis

> cluster <u>notes</u> *clname* : *text*

List all cluster notes

> cluster <u>notes</u>

List cluster notes associated with specified cluster analyses

> cluster <u>notes</u> *clnamelist*

Drop cluster notes

> cluster <u>notes</u> drop *clname* [in *numlist*]

Menu

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Description

The `cluster notes` command attaches notes to a previously run cluster analysis. The notes become part of the data and are saved when the data are saved and retrieved when the data are used; see [D] **save**.

To add a note to a cluster analysis, type `cluster notes`, the cluster-analysis name, a colon, and the text.

Typing `cluster notes` by itself lists all cluster notes associated with all defined cluster analyses. `cluster notes` followed by one or more cluster names lists the notes for those cluster analyses.

`cluster notes drop` allows you to drop cluster notes. If in *numlist* argument is omitted, all notes for *clname* are dropped.

See [MV] **cluster** for information on the available cluster analysis commands.

Remarks and examples   stata.com

The cluster-analysis system in Stata has many features that allow you to manage the various cluster analyses that you perform. See [MV] **cluster** for information on all the available cluster-analysis commands; see [MV] **cluster utility** for other cluster commands, including cluster list, that help you manage your analyses. The cluster notes command is modeled after Stata's notes command (see [D] **notes**), but they are different systems and do not interact.

▷ Example 1

We illustrate the cluster notes command starting with three cluster analyses that have already been performed. The cluster dir command shows us the names of all the existing cluster analyses; see [MV] **cluster utility**.

```
. cluster dir
sngeuc
sngabs
kmn3abs
. cluster note sngabs : I used single linkage with absolute value distance
. cluster note sngeuc : Euclidean distance and single linkage
. cluster note kmn3abs : This has the kmeans cluster results for 3 groups
. cluster notes
sngeuc
     notes:   1. Euclidean distance and single linkage
sngabs
     notes:   1. I used single linkage with absolute value distance
kmn3abs
     notes:   1. This has the kmeans cluster results for 3 groups
```

After adding a note to each of the three cluster analyses, we used the cluster notes command without arguments to list all the notes for all the cluster analyses.

The * and ? characters may be used when referring to cluster names; see [U] **11.2 Abbreviation rules**.

```
. cluster note k* : Verify that observation 5 is correct.  I am suspicious that
> there was a typographical error or instrument failure in recording the
> information.
. cluster notes kmn3abs
kmn3abs
     notes:   1. This has the kmeans cluster results for 3 groups
              2. Verify that observation 5 is correct. I am suspicious that
                 there was a typographical error or instrument failure in
                 recording the information.
```

cluster notes expanded k* to kmn3abs, the only cluster name that begins with a k. Notes that extend to multiple lines are automatically wrapped when displayed. When entering long notes, you just continue to type until your note is finished. Pressing *Return* signals that you are done with that note.

After examining the dendrogram (see [MV] **cluster dendrogram**) for the sngeuc single-linkage cluster analysis and seeing one small group of data that split off from the main body of data at a very large distance, you investigate further and find data problems. You decide to add some notes to the sngeuc analysis.

```
. cluster note *euc : All of Sam's data look wrong to me.
. cluster note *euc : I think Sam should be fired.
. cluster notes sng?*
sngeuc
      notes:   1. Euclidean distance and single linkage
               2. All of Sam's data look wrong to me.
               3. I think Sam should be fired.

sngabs
      notes:   1. I used single linkage with absolute value distance
```

Sam, one of the lab technicians, who happens to be the owner's nephew and is paid more than you, really messed up. After adding these notes, you get second thoughts about keeping the notes attached to the cluster analysis (and the data). You decide you really want to delete those notes and to add a more politically correct note.

```
. cluster note sngeuc : Ask Jennifer to help Sam reevaluate his data.
. cluster note sngeuc
sngeuc
      notes:   1. Euclidean distance and single linkage
               2. All of Sam's data looks wrong to me.
               3. I think Sam should be fired.
               4. Ask Jennifer to help Sam reevaluate his data.
. cluster note drop sngeuc in 2/3
. cluster notes kmn3abs s*
kmn3abs
      notes:   1. This has the kmeans cluster results for 3 groups
               2. Verify that observation 5 is correct. I am suspicious that
                  there was a typographical error or instrument failure in
                  recording the information.
sngeuc
      notes:   1. Euclidean distance and single linkage
               2. Ask Jennifer to help Sam reevaluate his data.

sngabs
      notes:   1. I used single linkage with absolute value distance
```

Just for illustration purposes, the new note was added before deleting the two offending notes. cluster notes drop can take an in argument followed by a list of note numbers. The numbers correspond to those shown in the listing provided by the cluster notes command. After the deletions, the note numbers are reassigned to remove gaps. So sngeuc note 4 becomes note 2 after the deletion of notes 2 and 3 as shown above.

Without an in argument, the cluster notes drop command drops all notes associated with the named cluster.

◁

Remember that the cluster notes are stored with the data and, as with other updates you make to the data, the additions and deletions are not permanent until you save the data; see [D] **save**.

❑ Technical note

Programmers can access the notes (and all the other cluster attributes) by using the cluster query command; see [MV] **cluster programming utilities**.

❑

Also see

[MV] **cluster programming utilities** — Cluster-analysis programming utilities

[MV] **cluster utility** — List, rename, use, and drop cluster analyses

[MV] **cluster** — Introduction to cluster-analysis commands

[MV] **clustermat** — Introduction to clustermat commands

[D] **notes** — Place notes in data

[D] **save** — Save Stata dataset